

14045-1US
10/572181
16 SEP 2006

ATTORNEY'S DOCKET NUMBER

14045-1US

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

10/572181

**TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371**

INTERNATIONAL APPLICATION NO.
PCT/US2004/030202

INTERNATIONAL FILING DATE
15 September 2004 (15.09.2004)

PRIORITY DATE CLAIMED
16 September 2003 (16.09.2003)

TITLE OF INVENTION
COMPOSITE POLYMER MICROFLUIDIC CONTROL DEVICE

APPLICANT(S) FOR DO/EO/US

REHM, Jason E.; PAUL, Phillip H.; CYR, Douglas R.; DATWANI, Sammy S.; DAHL, Klaus, J.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☐ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
 - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ has been communicated by the International Bureau.
 - c. ☒ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☐ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A copy of the International Search Report (PCT/ISA/210).

Items 13 to 23 below concern document(s) or information included:

13. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A power of attorney and/or change of address letter.
19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
20. ☒ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
22. ☒ Express Mail Label No. EV 629344193 US

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO (if known, see 37 CFR 1.6) <div style="font-size: 24pt; font-weight: bold; text-align: center;">10/572181</div>	INTERNATIONAL APPLICATION NO. <div style="text-align: center;">PCT/US2004/030202</div>	ATTORNEY'S DOCKET NUMBER <div style="text-align: center;">14045-1US</div>	
23. Other items or information: An unexecuted Declaration and Power of Attorney for Patent Application			
The following fees have been submitted:		CALCULATIONS	PTO USE
24. <input checked="" type="checkbox"/> Basic national fee \$300	\$300	\$ 300.00	
25. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). . . \$0 All other situations. \$200	\$200	\$ 200.00	
26. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). . . \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority. \$100 International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB. \$400 All other situations. \$500	\$500	\$ 100.00	
TOTAL OF 24, 25 and 26 =		\$ 600.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.			
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole)	RATE
- 100 =	0 /50 =	0	x \$250.00
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).		\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	49 - 20 =	29	x \$50.00
Independent claims	5 - 3 =	2	x \$200.00
MULTIPLE DEPENDENT CLAIMS (if applicable) <input type="checkbox"/> + \$360.00		\$	\$0.00
TOTAL OF ABOVE CALCULATIONS =		\$ 2,450.00	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.		\$	\$1,225.00
SUBTOTAL =		\$ 1,225.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).		\$	\$0.00
TOTAL NATIONAL FEE =		\$ 1,225.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +		\$	\$0.00
TOTAL FEES ENCLOSED =		\$ 1,225.00	
		Amount to be	\$
		Amount to be	\$

20/572181

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

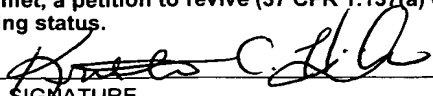
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

- 10/20 Rec'd PTO 16 MAR 2006
- a. ☐ A check in the amount of \$ _____ to cover the above fees is enclosed.
- b. ☒ Please charge my Deposit Account No. 19-2090 in the amount of \$ \$1,225.00 to cover the above fees.
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 19-2090. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Kristin C. Hiibner
Sheldon & Mak
225 S. Lake Avenue
9th Floor
Pasadena, CA 91101


SIGNATURE

Kristin C. Hiibner, Ph.D.

NAME

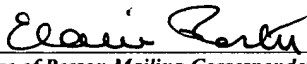
50,139

REGISTRATION NUMBER

March 16, 2006

DATE

16 MAR 2006

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)			Docket No. <div style="border: 1px solid black; padding: 2px; text-align: center;">14045-1US</div>	
Applicant(s): REHM, Jason E. et al.				
<div style="border: 1px solid black; padding: 2px; font-weight: bold; font-size: 1.2em;">10/572181</div> Application No. to be assigned	Filing Date <div style="border: 1px solid black; padding: 2px; text-align: center;">March 16, 2006</div>	Examiner to be assigned	Customer No. to be assigned	Group Art Unit to be assigned
Invention: COMPOSITE POLYMER MICROFLUIDIC CONTROL DEVICE				
<p>I hereby certify that the following correspondence:</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> Transmittal Letter to the U.S. Designated/Elected Office Concerning a Submission Under 35 U.S.C. 371; Preliminary Amendment; Information Disclosure Statement with PTO-1449 Forms; Copy of International Search Report; Unexecuted Declaration and Power of Attorney for Patent Application; Copy of Published PCT Application. </div> <p style="text-align: center; margin-left: 100px;"><i>(Identify type of correspondence)</i></p> <p>is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on</p> <div style="margin-left: 100px; margin-top: 20px;"> <div style="border-bottom: 1px solid black; display: inline-block; width: 150px; text-align: center;"> March 16, 2006 <i>(Date)</i> </div> <div style="margin-top: 40px; text-align: center;"> <div style="border-bottom: 1px solid black; display: inline-block; width: 150px; text-align: center;"> Elaine Porter <i>(Typed or Printed Name of Person Mailing Correspondence)</i> </div> <div style="margin-top: 10px; text-align: center;">  <i>(Signature of Person Mailing Correspondence)</i> </div> <div style="margin-top: 20px; text-align: center;"> <div style="border-bottom: 1px solid black; display: inline-block; width: 150px; text-align: center;"> EV 629344193 US <i>("Express Mail" Mailing Label Number)</i> </div> </div> </div> </div>				
Note: Each paper must have its own certificate of mailing.				